Partial integration versus local/global anchoring: a test

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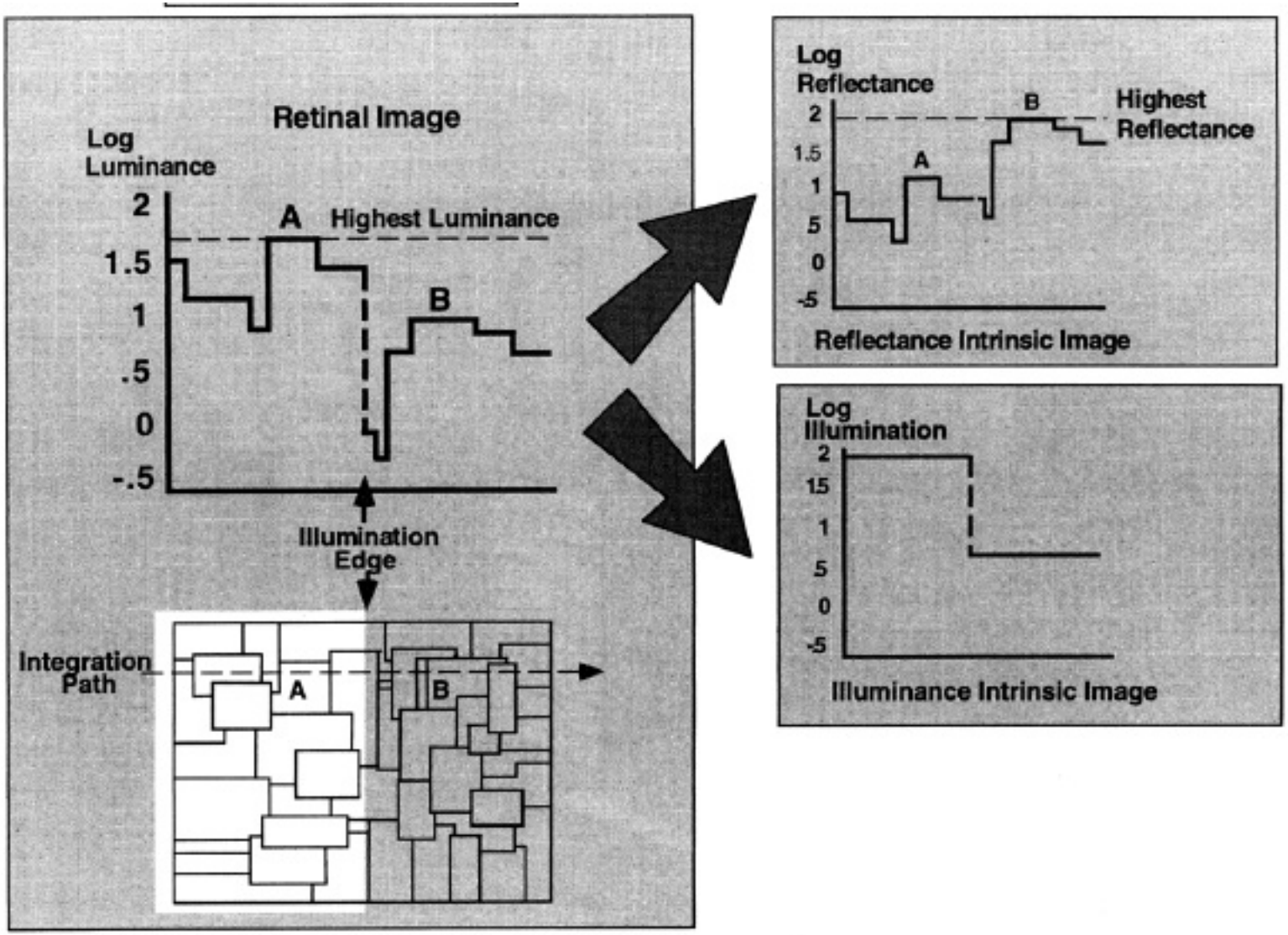
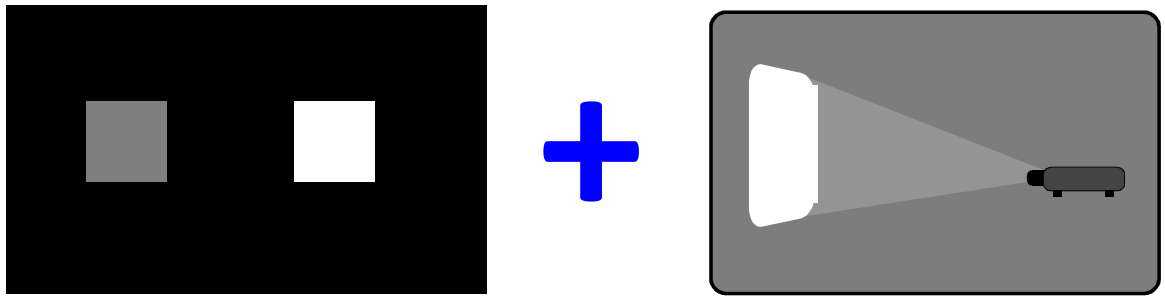
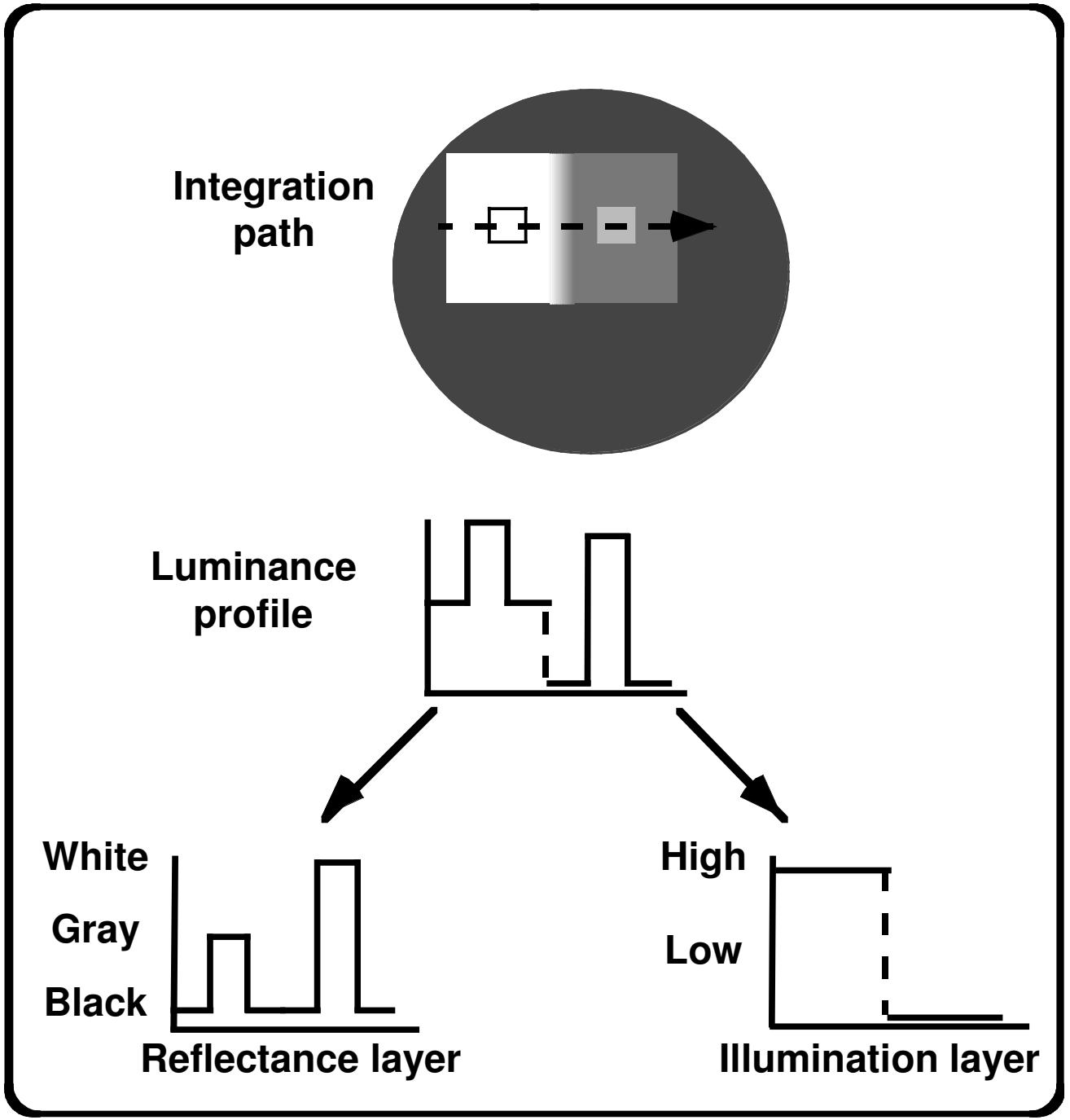
Partial integration versus local/global anchoring: a test

Alan Ghilchris & Alessandro Soranzo


Retinal Image
Log
Luminance
2
1.5
1
.5
0
-.5
A
Highest Luminance
B
Illumination
Edge
Integration
Path
A
B
Log
Reflectance
2
1.5
1
5
0
-5
A
B
Highest
Reflectance
Reflectance Intrinsic Image
Log
Illumination
2
15
1
5
0
-5
Illuminance Intrinsic Image



Intrinsic-image model (Gilchrist, 1979)

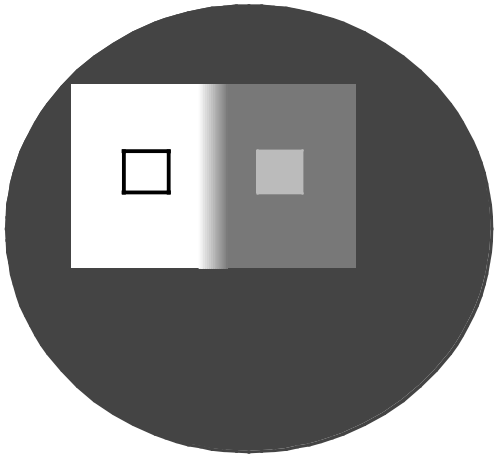


Predictions:

Anchoring model (Gilchrist, et al 1999)

Predictions:

Left target highest luminance in local AND global frameworks



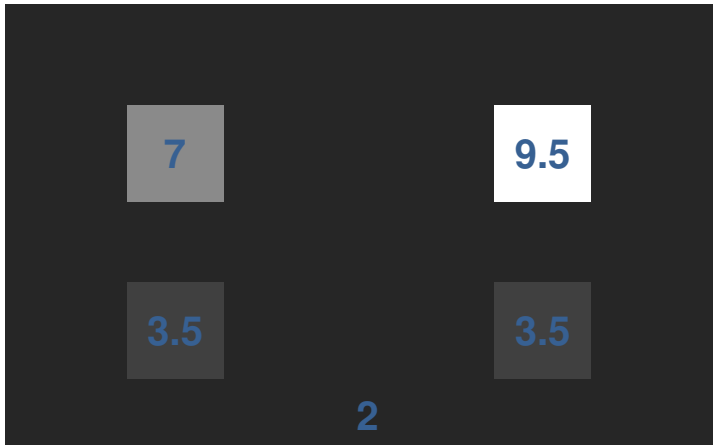
Right target highest luminance in local but not in global framework

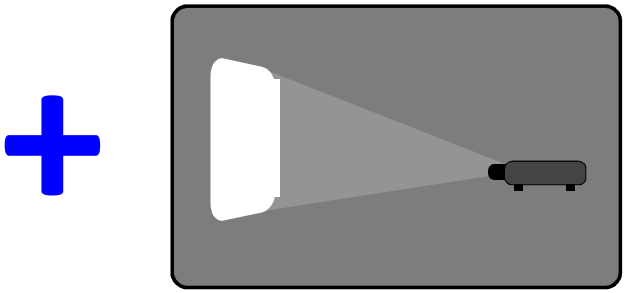
Prediction: White

Light gray

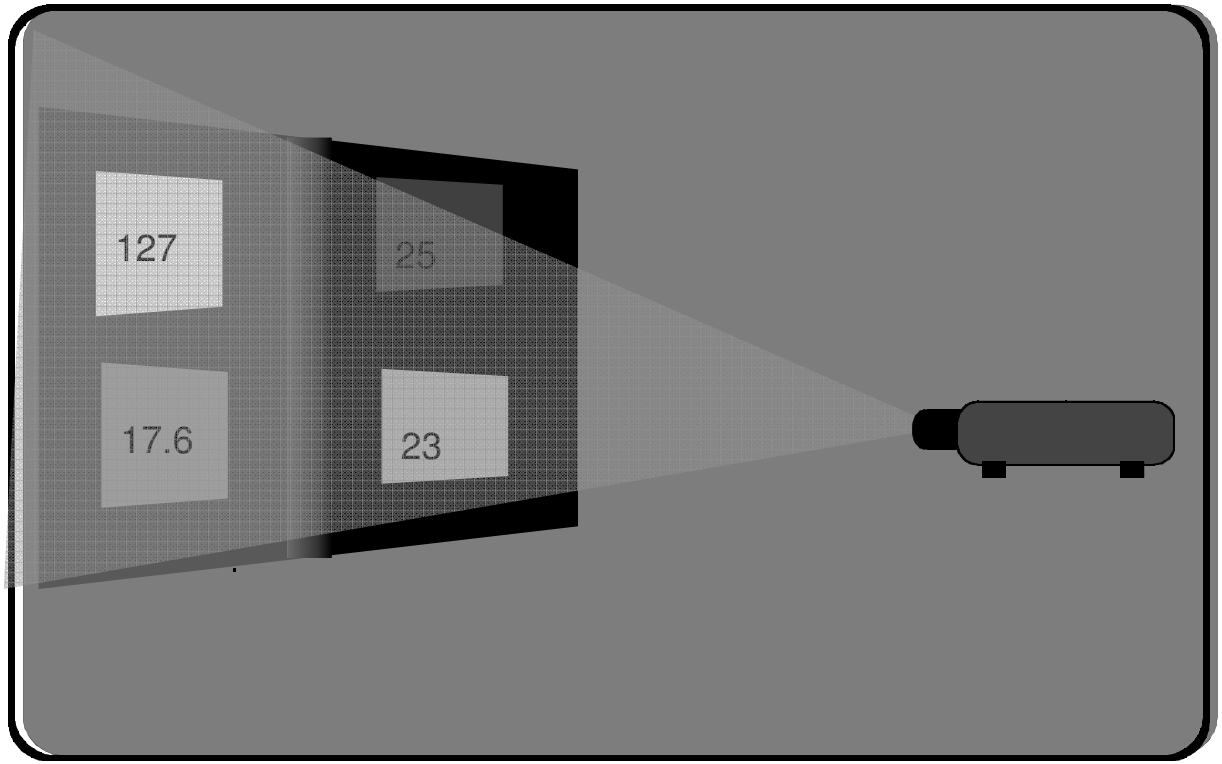
STIMULI

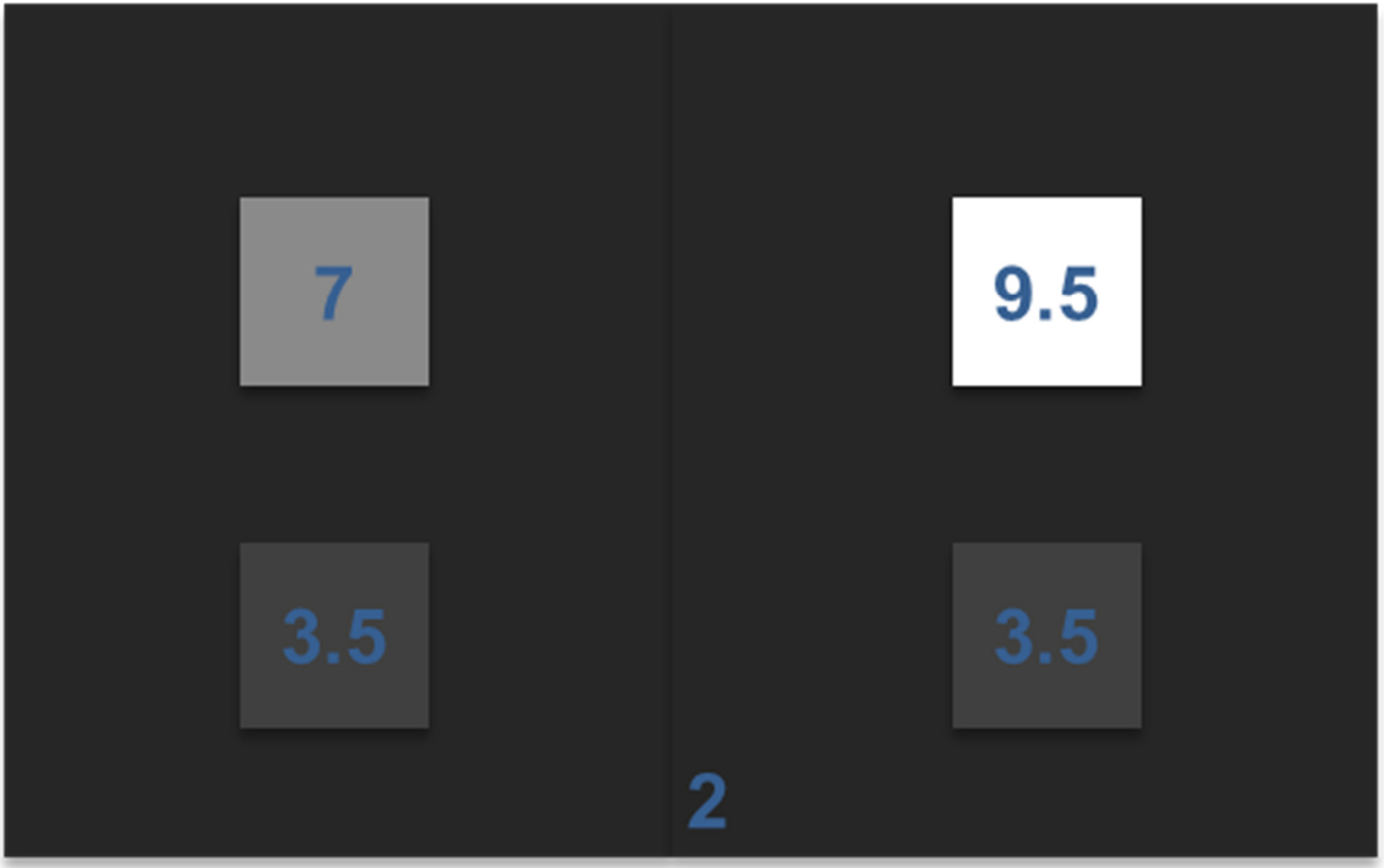
MUNSELL



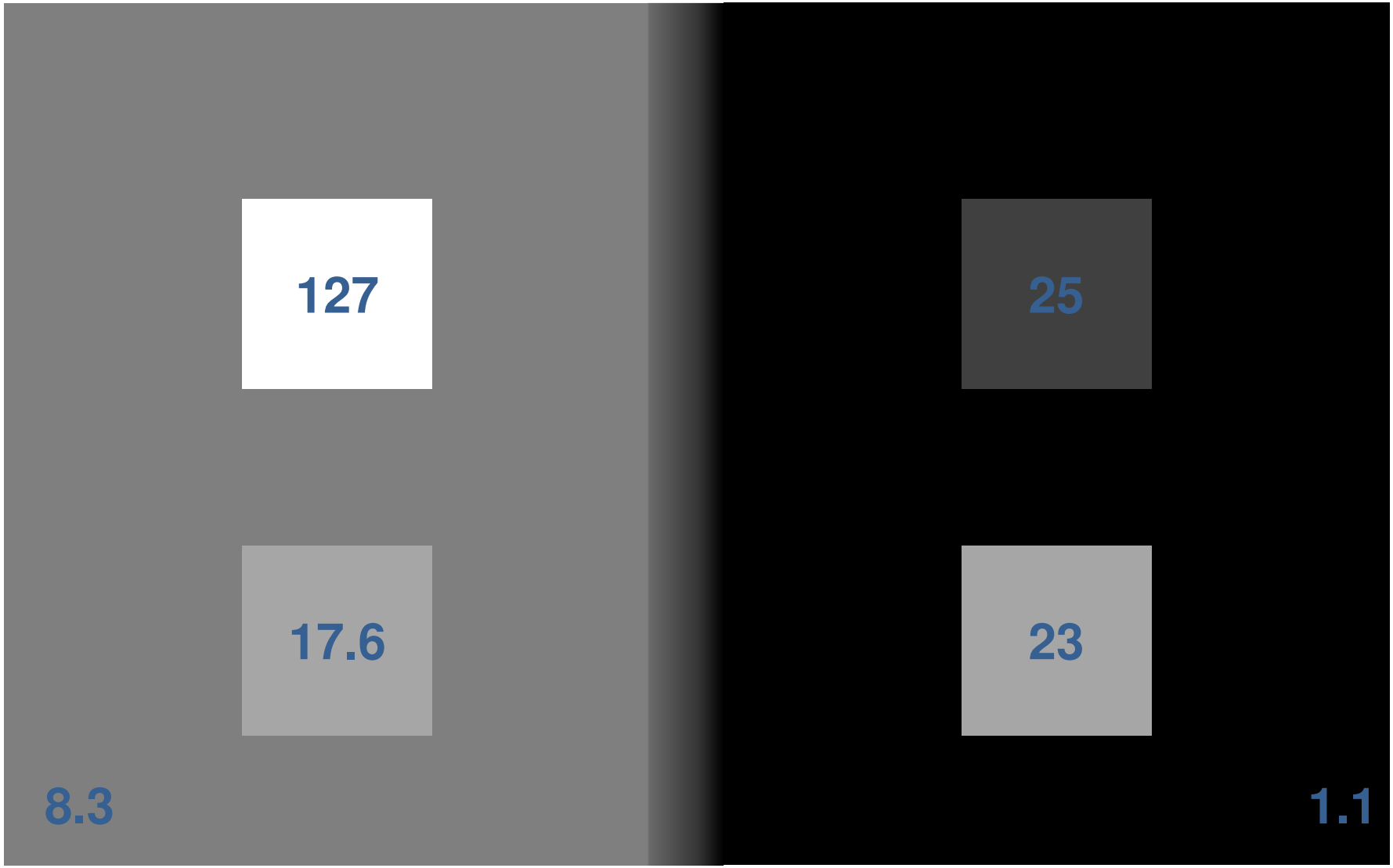


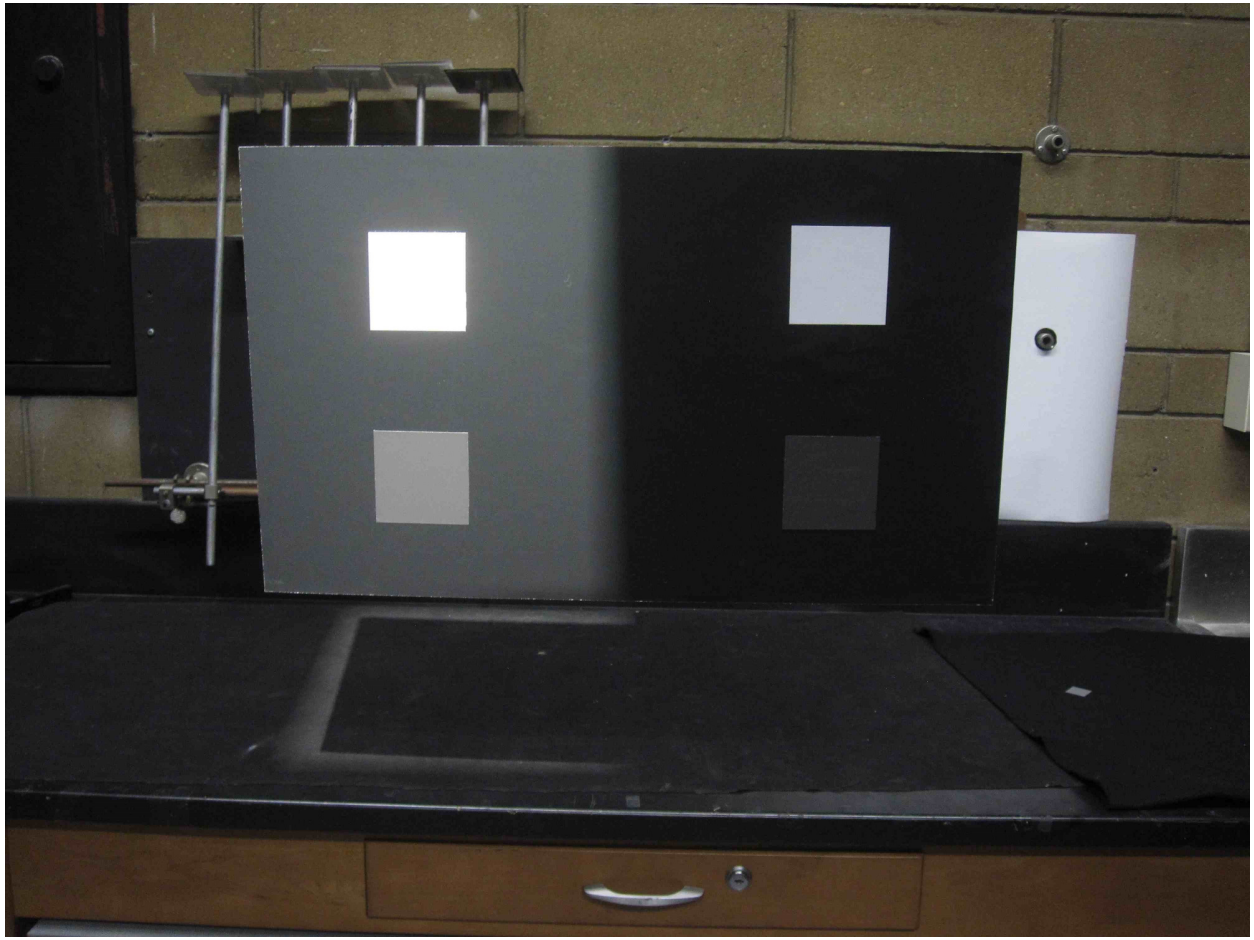
LUMINANCE (cd/m2)

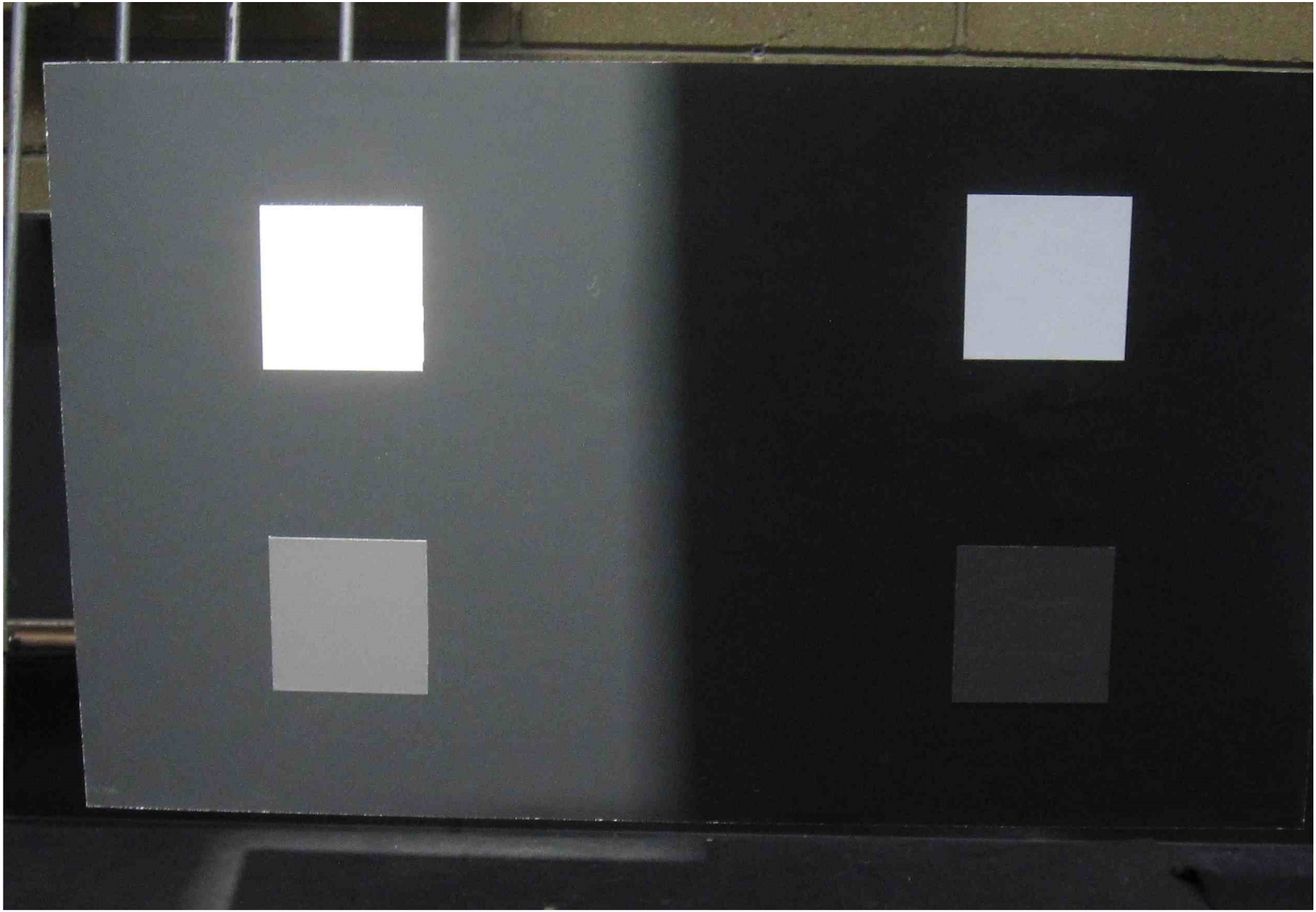


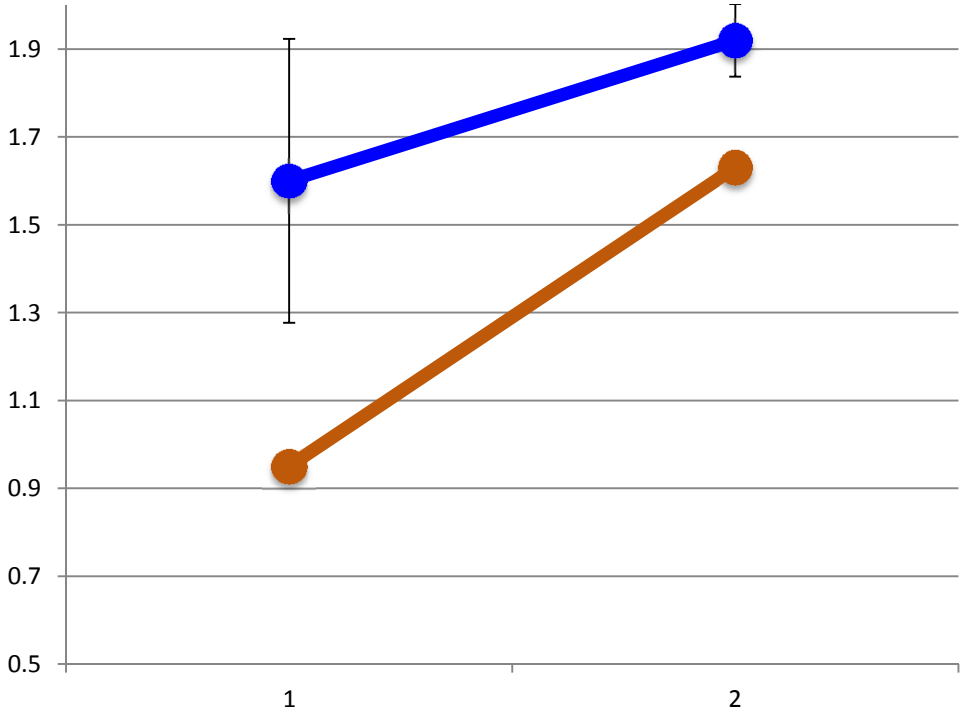

7
9.5
3.5
3.5
2

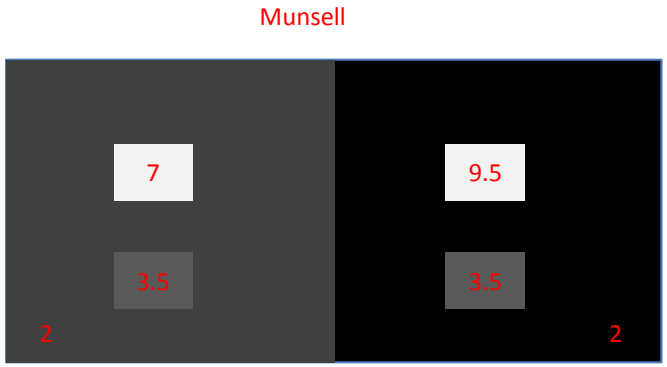
STIMULI LUMINANCE (cd/m2)








1.9
1.7
1.5
1.3
1.1
0.9
0.7
0.5
1
2


Munsell
7
9.5
3.5
3.5
2
2